

Amendments to the Specification

Please replace paragraph 32 on page 9 with the following amended paragraph:

[0032] An encode process, as shown in FIG. 3, shows how a vertical barcode or similar code can encode a WEB page display and/or behavior modifying rules. The encode process uses codes and checksums for data reliability. Returning to FIG. 2, the user will point a laser scan line 66 generated by the optical scan assembly 42 46 at the top barcode 202 and drag the laser scan line 66 to the bottom barcode 203. When successful the purchasing aid logistic appliance 10 will beep one short high-pitched note. If not successful the purchasing aid logistic appliance 10 will beep one long low sounding beep. Checksums in the code will indicate a successful scan. Also, other types of signals representative of information can also be printed by the PAL 10.

Please replace paragraph 55 on page 21 with the following amended paragraph:

[0055] A radio subsystem ~~32~~ 42 (FIG. 1) utilizes two conventional types of antennae, as illustrated in FIG. 11a, simultaneously. These two antennas, one a forward directional antenna 41a and the other an omni directional antenna 43a are used by the protocol to affect the RF link. The forward directional antenna 41a includes conventional components, such as, a signal absorbing material 41b, reflecting cone shaped director 41c, and a directional element 41d. The omni directional antenna 43a includes conventional dual back-to-back hemispherical coverage antennas 43b. By managing the power, a link can be created within the confines of an aisle shelf area (to be discussed below). The omni directional antenna is used to communicate with the PAL 10 when it is not within the confines of the aisle shelf area. Both antennas are operated from their respective antenna controllers 41, 43, and connected to the processor 11 through the radio link

controller 40. The advantages of two antennas are diversity and multi channel link control giving the merchant computer the ability to manage large numbers of simultaneous users.